

**SPLIT TRANSACTIONAL UNIDIRECTIONAL BUS ARCHITECTURE
AND METHOD OF OPERATION**

ABSTRACT OF THE DISCLOSURE

5 There is disclosed a bus interface unit for transferring data
between a plurality of bus devices. The bus interface unit
comprises: 1) a first bus device interface comprising: a) a first
incoming request bus for receiving request packets from a first one
of the plurality of bus devices; b) a first outgoing request bus
for transmitting request packets to the first bus device; c) a
first incoming data bus for receiving data packets from the first
bus device; and d) a first outgoing data bus for transmitting data
packets to the first bus device; and 2) a second bus device
interface comprising: a) a second incoming request bus for
receiving request packets from a second one of the plurality of bus
devices; b) a second outgoing request bus for transmitting request
packets to the second bus device; c) a second incoming data bus for
receiving data packets from the second bus device; and d) a second
outgoing data bus for transmitting data packets to the second bus
20 device.